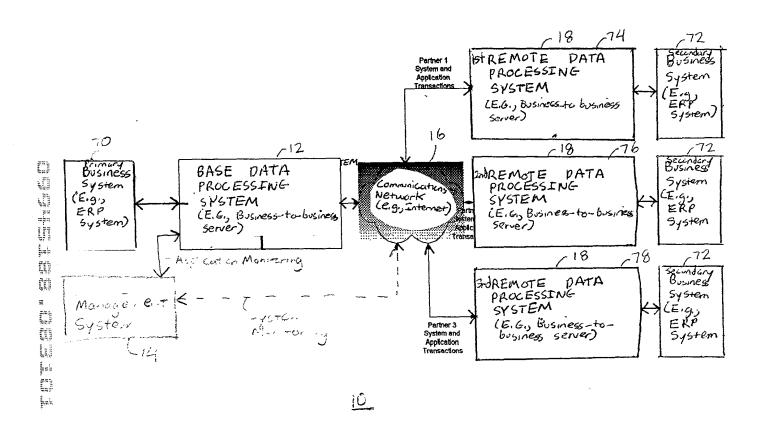
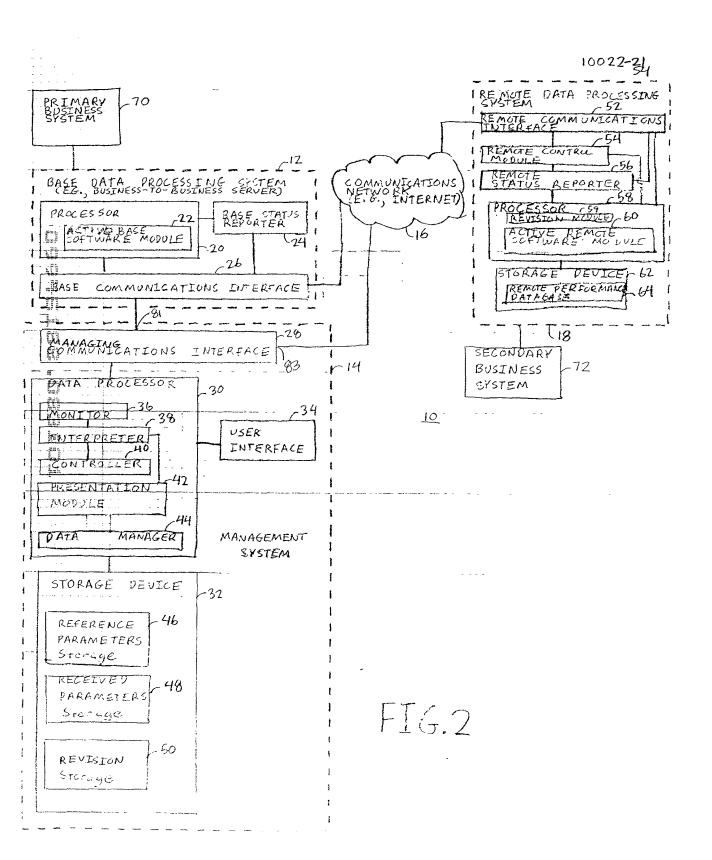
FIG.1





Patent Application for: REMOTELY MANAGING
A DATA PROCESSING SYSTEM VIA A
COMMUNICATIONS NETWORK
Inventor: Cornelius et al. Docket No.10022/54

FIG. 3

COMMUNICATE WITH ONE OR MORE REMOTE DATA PROCESSING SYSTEMS (E.G., REMOTE BUSINESS-TO-BUSINESS SERVERS) ASSOCIATED WITH TRADING PARTNERS ON AT LEAST ONE TECHNICAL PARAMETER OF EACH RESPECTIVE DATA PROCESSING SYSTEM.

RECEIVE A REPORT MESSAGE ON THE AT LEAST ONE TECHNICAL PARAMETER VIA A COMMUNICATIONS NETWORK.

INTERPRET OR PROCESS THE REPORT MESSAGE FOR PRESENTATION ON A USER INTERFACE.

PRESENT THE REPORT MESSAGE OR ANOTHER PRESENTATION, DERIVED THEREFROM, ON THE USER INTERFACE FOR REVIEW.

The state of the s

200	\$ 0.00 m	907	1 Com	001/
	TEANSACTION DENTIFIED	TINCOMPAG	OUTGOING	TIME STATUS DATA
TRADING PARINER IDENTIFIE	TRADING PARINEK IDENTIFIER TRANSACTION IDENTIFIED			
EIRST TRADING PARTNER	1,000.00	1,000.00 1/31/2001, 10:30:00 AM	1/31/2001, 10:34:00 AM	COMPLETE
				11 10 10 10 10 10 10 10 10 10 10 10 10 1
SCOND TRADING BABTNER		1 001 00 1/31/2001, 11:20:00 AM	1/31/2001, 11:22:00 AM	COMPLEIE
מבניסות ואסוותם ביותים ביותים				
	4 002 00	4 000 00 1/31/2001 1:12:00 PM		NOT RECEIVED
THIRD IRADING PAKINEK	00.200,1	***************************************	6	***
4 9	\$	**	WC 00.46.00 DW	TALIBUD TATA
- NITH TRADING PARTNER	1,003.00	1,003.00 1/31/2001, 10:30:00 PM 1/31/2001, 10:45:00 PM	1/31/2001, 10:45:00 FIN	

416.5

Patent Application for: REMOTELY MANAGING A DATA PROCESSING SYSTEM VIA A COMMUNICATIONS NETWORK Inventor: Cornelius et al. Docket No.10022/54 وتفاعدهم مستند والمناف والمالي والمالي والمتالية



(ر `

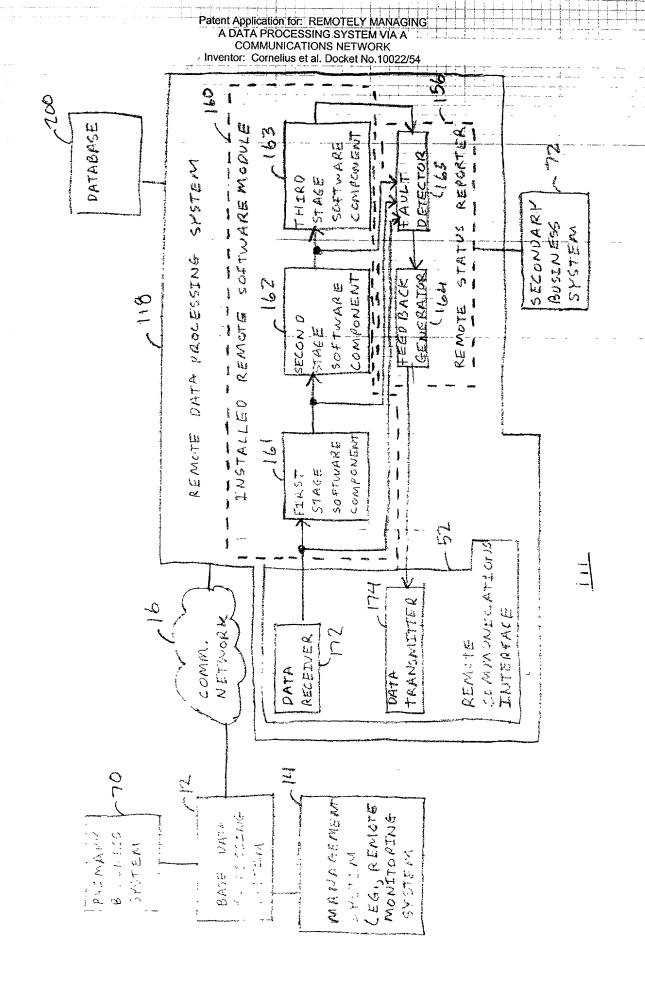


FIG. 7 5110 DID A DATA PROCESSING SYSTEM RECEIVE AN INCOMING STATUS MESSAGE IN RESPONSE TO A PRIOR OUTGOING TRANSACTIONAL MESSAGE COMMUNICATED TO A REMOTE DATA PROCESSING SYSTEM VIA A COMMUNICATIONS NETWORK? YES 5117 NO END IF STATUS MESSAGE INDICATES PROPER RECEIPT OF OUTGOING TRANSACTIONAL MESSAGE. 5114 WAS THE TRANSACTIONAL MESSAGE RECEIVED AT THE REMOTE DATA PROCESSING SYSTEM? NO -5116 YES VERIFY INTEGRITY OF COMMUNICATIONS PATH BETWEEN DATA PROCESSING SYSTEM AND REMOTE PROCESSING SYSTEM VIA THE COMMUNICATIONS NETWORK. RESEND THE TRANSACTIONAL DATA MESSAGE FROM DATA PROCESSING SYSTEM TO REMOTE DATA ų. PROCESSING SYSTEM VIA THE COMMUNICATIONS NETWORK. 5118 DOES AN ERROR MESSAGE ADEQUATELY IDENTIFY A PROBLEM ASSOCIATED WITH THE TRANSACTIONAL MESSAGE OR THE BUSINESS-TO-BUSINESS SYSTEM? 5122 1, YES 5120 NC IS THE PROBLEM TAKE CORRECTIVE ACTION BASED ON THE ERROR MESSAGE STILL PRESENT? M END YES S126 IS EACH SOFTWARE MODULE OR COMPONENT RUNNING AT THE REMOTE DATA PROCESSING SYSTEM? NO 1, YES 5128 ~5134 IDENTIFY ANY DEFICIENT SOFTWARE MODULE OR REVIEW ERROR LOG OR COMPONENT OF THE REMOTE DATA PROCESSING SYSTEM. INVESTIGATE THE PROBLEM. ∼5130 RESTART OR RESET THE DEFICIENT SOFTWARE MODULE OR COMPONENT. 5131 IS THE RESTARTED OR RESET SOFTWARE MODULE OR COMPONENT OPERATIONAL? RESEND THE OUTGOING TRANSACTIONAL MESSAGE! 5132 SEND A REVISION TO THE REMOTE DATA PROCESSING SYSTEM FOR SERVICING THE REMOTE DATA PROCESSING SYSTEM. THE REVISION MAY COMPRISE ONE OR MORE OF THE FOLLOWING ITEMS: A TECHNICAL PARAMETER IMPACTING THE DEFICIENT SOFTWARE MODULE, A REVISED VERSION OF THE DEFICIENT SOFTWARE MODULE, AND A REPLACEMENT

SET OF SOFTWARE MODULES

Hong after a green of the state the fresh upper speech deeps short the

Patent Application for: REMOTELY MANAGING A DATA PROCESSING SYSTEM VIA A COMMUNICATIONS NETWORK Inventor: Cornelius et al. Docket No.10022/54

10022-21

FIG. 9

520 COMMUNICATE WITH REMOTE DATA PROCESSING SYSTEMS (E.G., REMOTE BUSINESS-TO-BUSINESS SERVERS) ASSOCIATED WITH TRADING PARTNERS ON AT LEAST ONE TECHNICAL PARAMETER CONCERNING SOFTWARE, HARDWARE, OR BOTH OF EACH RESPECTIVE REMOTE DATA PROCESSING SYSTEM. - 522 RECEIVE A REPORT MESSAGE ON THE AT LEAST ONE TECHNICAL PARAMETER VIA A COMMUNICATIONS NETWORK. 524 RETRIEVE REFERENCE TECHNICAL PARAMETER DATA ON HARDWARE AND SOFTWARE FROM A REFERENCE PARAMETERS DATABASE. DOES THE RECEIVED TECHNICAL PARAMETER YES from DATA OF THE APPLICABLE (E.G., NEXT) DATA Step S416 PROCESSING SYSTEM COMPLY WITH OR MATCH THE REFERENCE TECHNICAL PARAMETER DATA? -528 526 NO HAVE ALL OF THE REMOTE DATA PROCESSING NO SYSTEMS IN A DEFINED GROUP (E.G., TRADING GROUP) BEEN CHECKED FOR COMPLIANCE WITH THE REFERENCE TECHNICAL PARAMETER DATA? M VES 530 END. Ti. 532 ARE THE SAME TYPES OF SOFTWARE MODULES SPECIFIED IN THE REFERENCE TECHNICAL YES PARAMETER DATA AND IN THE RECEIVED TECHNICAL PARAMETER DATA FOR THE APPLICABLE DATA PROCESSING SYSTEM? NO -534 ALLOCATE OR SEND A NEW SOFTWARE MODULE (E.G., AN UPGRADE OF A REMOTE SOFTWARE MODULE) TO THE APPLICABLE REMOTE DATA PROCESSING SYSTEM. -536 ARE THE SAME VERSIONS OF THE SOFTWARE MODULES SPECIFIED IN THE REFERENCE YES TECHNICAL PARAMETER DATA AND IN THE RECEIVED TECHNICAL PARAMETER DATA FOR THE APPLICABLE DATA PROCESSING SYSTEM? ToStep NO 7 540 ALLOCATE OR SEND A DESIRED VERSION (E.G., LATEST VERSION) OF THE SOFTWARE TO THE APPLICABLE REMOTE DATA PROCESSING SYSTEM CONSISTENT WITH A VERSION OF SOFTWARE OF THE PRIMARY TRADING PARTNER. C538

Patent Application for: REMOTELY MANAGING A DATA PROCESSING SYSTEM VIA A COMMUNICATIONS NETWORK Inventor: Comelius et al. Docket No.10022/54 10022-21

NO

From Step S360r S36

FIG.

10

IS A HARDWARE UPGRADE OR ADDITIONAL HARDWARE REQUIRED TO SUPPORT THE PLANNED INSTALLATION OF THE NEW SOFTWARE MODULE OR THE DESIRED VERSION?

540

YES

342

GENERATE AN ALERT MESSAGE FOR PRESENTATION ON A USER INTERFACE THAT A HARDWARE UPGRADE MAY BE REQUIRED FOR A REMOTE DATA PROCESSING SYSTEM. WAIT FOR THE REQUISITE HARDWARE UPGRADE TO BE COMPLETED.

REVISE THE SOFTWARE CONFIGURATION OF THE REMOTE DATA PROCESSING SYSTEM BASED ON THE RECEIPT OR AVAILABILITY OF THE DESIRED VERSION, THE NEW SOFTWARE MODULE, OR BOTH.

544

- 542

CONFIRM REPLACEMENT OR REVISION BY CHECKING OPERATIONAL STATUS OF THE REVISED REMOTE DATA PROCESSING SYSTEM VIA A DIRECT REQUEST THROUGH THE COMMUNICATIONS NETWORK OR INCIDENTAL TO A POLLING PROCEDURE FOR MONITORING OPERATIONAL STATUS.

Return to step 526

The first tends in the court of the first that the court of the



-518 REVISE A TECHNICAL PARAMETERS DATABASE SUCH THAT A REFERENCE CONFIGURATION REFLECTS A NEW FEATURE FOR INSTALLATION AT ONE OR MORE DATA PROCESSING SYSTEMS. 520 COMMUNICATE WITH REMOTE DATA PROCESSING SYSTEMS (E.G., REMOTE BUSINESS-TO-BUSINESS SERVERS) ASSOCIATED WITH TRADING PARTNERS ON AT LEAST ONE TECHNICAL PARAMETER CONCERNING SOFTWARE, HARDWARE, OR BOTH OF EACH RESPECTIVE REMOTE DATA PROCESSING SYSTEM. -522 RECEIVE A REPORT MESSAGE ON THE AT LEAST ONE TECHNICAL PARAMETER VIA A COMMUNICATIONS NETWORK. 524 RETRIEVE REFERENCE TECHNICAL PARAMETER DATA ON HARDWARE AND SOFTWARE FROM A REFERENCE PARAMETERS DATABASE. V. 11 DOES THE RECEIVED TECHNICAL PARAMETER YES From DATA OF THE APPLICABLE (E.G., NEXT) DATA Step S46 PROCESSING SYSTEM COMPLY WITH OR MATCH THE REFERENCE TECHNICAL PARAMETER DATA? Harry Control 528 526 H NO HAVE ALL OF THE REMOTE DATA PROCESSING NO SYSTEMS IN A DEFINED GROUP (E.G., TRADING Ti. GROUP) BEEN CHECKED FOR COMPLIANCE WITH THE REFERENCE TECHNICAL PARAMETER DATA? V YES ~ S30 END. - 532 ARE THE SAME TYPES OF SOFTWARE MODULES SPECIFIED IN THE REFERENCE TECHNICAL YES PARAMETER DATA AND IN THE RECEIVED TECHNICAL PARAMETER DATA FOR THE APPLICABLE DATA PROCESSING SYSTEM? NO .534 ALLOCATE OR SEND A NEW SOFTWARE MODULE (E.G., AN UPGRADE OF A REMOTE SOFTWARE MODULE) TO THE APPLICABLE REMOTE DATA PROCESSING SYSTEM. -536 ARE THE SAME VERSIONS OF THE SOFTWARE MODULES SPECIFIED IN THE REFERENCE YES TECHNICAL PARAMETER DATA AND IN THE RECEIVED TECHNICAL PARAMETER DATA FOR THE APPLICABLE DATA PROCESSING SYSTEM? ToStep NO 540 ALLOCATE OR SEND A DESIRED VERSION (E.G., LATEST VERSION) OF THE SOFTWARE TO THE APPLICABLE REMOTE DATA PROCESSING SYSTEM CONSISTENT WITH A VERSION OF SOFTWARE OF THE PRIMARY TRADING PARTNER.

NO

From Step S360r 336

FIG. 12

IS A HARDWARE UPGRADE OR ADDITIONAL HARDWARE REQUIRED TO SUPPORT THE PLANNED INSTALLATION OF THE NEW SOFTWARE MODULE OR THE DESIRED VERSION?

540

YES

542

GENERATE AN ALERT MESSAGE FOR PRESENTATION ON A USER INTERFACE THAT A HARDWARE UPGRADE MAY BE REQUIRED FOR A REMOTE DATA PROCESSING SYSTEM. WAIT FOR THE REQUISITE HARDWARE UPGRADE TO BE COMPLETED.

REVISE THE SOFTWARE CONFIGURATION OF THE REMOTE DATA PROCESSING SYSTEM BASED ON THE RECEIPT OR AVAILABILITY OF THE DESIRED VERSION, THE NEW SOFTWARE MODULE, OR BOTH.

-544

-542

CONFIRM REPLACEMENT OR REVISION BY CHECKING OPERATIONAL STATUS OF THE REVISED REMOTE DATA PROCESSING SYSTEM VIA A DIRECT REQUEST THROUGH THE COMMUNICATIONS NETWORK OR INCIDENTAL TO A POLLING PROCEDURE FOR MONITORING OPERATIONAL STATUS.

Return to step 526

fferte der der eine Et it texte all der jaret. Der der dem jaret auf der jaret dem jaret auf der der der der d 1. M. 16-M. 16-M. 16-M. 16-M. 18. M. 18. M.

FIG. 13

